California Energy Commission



CLASSIFICATION: Mechanical Engineer

TENURE: Limited Term

(8 months, May be extended up to 24 months

May become permanent)

TIME BASE: Full Time

SALARY: \$4,608.00-\$8,630.00

LOCATION: Energy Efficiency Research Office

Energy Research and Development Division

FINAL FILING DATE: Until Filled

DUTIES/RESPONSIBILITIES:

OPPORTUNITY

Under the general direction and supervision of the Energy Commission Supervisor II in the Energy Efficiency Research Office, the incumbent provides mechanical engineering support to the Industrial, Agriculture, and Water (IAW) team. As such, the incumbent develops, implements, and administers electricity and natural gas-based energy research, development, and demonstration (RD&D) efforts related to IAW projects with the goal of advancing science and technologies not adequately addressed by the competitive or regulated markets. The incumbent performs a wide variety of mechanical engineering assignments, such as reviewing and/or preparing engineering studies or evaluations related to energy systems, technologies and practices; reviewing specifications, designs and proposals; and calculating and estimating energy savings. The incumbent conducts detailed field inspections during project construction and installations.

While performing the duties described below, the incumbent will be required to work alone, work within a team, utilizing a personal computer and appropriate Energy Commission software such as the Microsoft suite of software, electronic mail and the Internet. The incumbent will be required to plan, organize, assist and/or participate in meetings with other Energy Commission staff, staff from other federal and state agencies, consultants, contractors, and other parties active in energy-related research and development. The incumbent will perform duties as follows:

- The incumbent reviews and/or prepares engineering studies or evaluations related to energy systems, technologies and practices; evaluates or performs calculations to determine energy savings and project costs; conducts detailed engineering assessments and analyses of new, innovative and emerging energy efficiency technologies to determine their impact in reducing energy use and greenhouse gas emissions: and identifies and recommends RD&D activities associated with mechanical systems. The incumbent may perform one or more complex engineering evaluations relating to mechanical system performance including but not limited to the following: fluid flow, heat transfer, mechanical methods of power and material transmission, thermodynamics, pump analysis, mass and energy balances, environmental controls, material selection and specifications, efficiency and economics of engineering design options, cost, and performance, and the RD&D requirements relating the development and deployment of these technologies.
- The incumbent serves as the project manager for complex research projects with engineering tasks. As such, the incumbent will be responsible for all phases of project management, such as: a) prepare work statements, budgets, schedules, and contract

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amendments; b) identify measurable technical and economic objectives to determine project success; c) maintain technical and business relationships with the contractor; d) review monthly progress reports and prepare an evaluation of the project and brief management, as needed; e) inspect projects to ensure they meet technical, fiscal, and administrative objectives; and f) review and approve contractor invoices.

- The incumbent participates in a technical scoring committee and provides his/her mechanical engineering expertise in reviewing proposals to determine how well the project addresses the scope of the solicitation criteria. Examples include the extent the project will: a) advance science or technologies not adequately provided by the regulated and competitive markets, b) have projected benefits and energy savings that are consistent with engineering laws and principals, c) address market issues and needs and the resulting impact on the marketplace, and d) have a likelihood of success based on adequate project budget and identified staff resources.
- The incumbent consults with research organizations, federal and state government agencies, utility representatives and other technical experts to identify RD&D opportunities for alternative and advanced energy systems or technologies in California. Through on-going discussions and interactions with market stakeholders, the incumbent defines, develops and implements projects that provide significant public benefits to California and meet the policy and technical objectives of the Energy Commission's RD&D Program.

WORKING CONDITIONS:

Work is performed primarily in an office and hearing room environment and may require sitting for long periods of time. Work area is well lighted and ventilation is adequate. The noise level is sometimes high. Some travel is required to attend off-site meetings.

DESIRABLE EXPERIENCE/QUALIFICATIONS:

- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

The full duty statement is available at http://www.energy.ca.gov/careers/jobs.html

WHO MAY APPLY: All interested eligible persons are encouraged to apply. Interested applicants must submit a completed Standard State Application (Form STD. 678) to the address listed below. Electronic applications will not be accepted. You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reinstatement, etc.) and include RPA #580-216 and Position #5800-3583-001 in the explanation section of the STD. 678.

PLEASE NOTE: Possession of minimum qualifications will be verified prior to interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application may be forwarded to the State Personnel Board for review and the applicant's name may be removed from the eligibility list.

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

Jill Ford (RPA 580-216)
Personnel Office
1516 Ninth Street, M.S. #3
Sacramento, CA 95814
(916) 653-4521
personnelservices@energy.ca.gov

California Relay (Telephone) Service for the Deaf or Hearing-Impaired From hTDD Phones: 1-800-735-2929

From Voice Phones: 1-800-735-2922